



Tecumseh

Performance Data Sheet

RKA5480YXG

General Information

Model	RKA5480YXG	Refrigerant	R-134a
Test Condition	EN12900 ASERCOM	Performance Test Voltage	400V 3~ 50HZ
Return Gas	10K (18°F) SUPERHEAT	Motor Type	3PH

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-25	Watts (Capacity)	586			
	Watts (Power)	367			
	Amps	1.95			
-23.3	Watts (Capacity)	635	513		
	Watts (Power)	378	432		
	Amps	1.95	1.92		
-20	Watts (Capacity)	740	622		
	Watts (Power)	398	456		
	Amps	1.95	1.93		
-15	Watts (Capacity)	935	816	679	
	Watts (Power)	421	488	547	
	Amps	1.95	1.94	1.95	
-10	Watts (Capacity)	1180	1050	896	735
	Watts (Power)	439	513	583	651
	Amps	1.95	1.95	1.97	2.01
-6.7	Watts (Capacity)	1370	1230	1060	880
	Watts (Power)	448	527	603	679
	Amps	1.94	1.95	1.98	2.03
-5	Watts (Capacity)	1480	1330	1150	960
	Watts (Power)	451	533	613	693
	Amps	1.94	1.95	1.99	2.04
0	Watts (Capacity)	1840	1660	1450	1220
	Watts (Power)	458	547	637	729
	Amps	1.93	1.96	2.01	2.08

5	Watts (Capacity)	2260	2060	1810	1530
	Watts (Power)	459	556	655	760
	Amps	1.93	1.97	2.03	2.11
7.2	Watts (Capacity)	2480	2250	1980	1680
	Watts (Power)	458	558	662	772
	Amps	1.92	1.97	2.03	2.12
10	Watts (Capacity)	2770	2520	2220	1890
	Watts (Power)	455	559	669	786
	Amps	1.92	1.97	2.04	2.14
15	Watts (Capacity)	3360	3060	2710	2310
	Watts (Power)	446	558	677	807
	Amps	1.91	1.97	2.06	2.16

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.004927E+03	1.730465E+02	1.979050E+00	
C2	8.934071E+01	-9.192632E-01	-9.098040E-03	
C3	5.785218E+00	1.038535E+01	-4.657430E-03	
C4	1.881063E+00	-1.070900E-01	-2.337880E-05	
C5	-1.692024E-01	-1.486422E-02	2.564890E-04	
C6	-4.492583E-01	-4.036680E-02	1.044550E-04	
C7	9.547532E-03	2.622340E-04	0.000000E+00	
C8	-1.643617E-02	-1.380000E-05	0.000000E+00	
C9	-6.200228E-03	2.375333E-03	0.000000E+00	
C10	2.261796E-03	3.622260E-04	0.000000E+00	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Tecumseh

Performance Data Sheet

RKA5480YXG

General Information

Model	RKA5480YXG	Refrigerant	R-134a
Test Condition	EN12900 ASERCOM	Performance Test Voltage	460V 3~ 60HZ
Return Gas	10K (18°F) SUPERHEAT	Motor Type	3PH

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-25	Watts (Capacity)	736			
	Watts (Power)	451			
	Amps	1.79			
-23.3	Watts (Capacity)	793	655		
	Watts (Power)	455	527		
	Amps	1.79	1.74		
-20	Watts (Capacity)	918	784		
	Watts (Power)	463	535		
	Amps	1.80	1.76		
-15	Watts (Capacity)	1150	1010	858	
	Watts (Power)	479	557	631	
	Amps	1.80	1.78	1.78	
-10	Watts (Capacity)	1440	1290	1120	928
	Watts (Power)	494	583	659	751
	Amps	1.80	1.80	1.82	1.85
-6.7	Watts (Capacity)	1670	1510	1310	1100
	Watts (Power)	501	601	683	772
	Amps	1.80	1.81	1.84	1.88
-5	Watts (Capacity)	1800	1630	1420	1200
	Watts (Power)	503	610	695	785
	Amps	1.80	1.81	1.85	1.90
0	Watts (Capacity)	2230	2030	1790	1520
	Watts (Power)	500	632	732	828
	Amps	1.79	1.82	1.87	1.94

5	Watts (Capacity)	2750	2500	2210	1890
	Watts (Power)	481	645	766	874
	Amps	1.77	1.82	1.89	1.98
7.2	Watts (Capacity)	3010	2740	2420	2070
	Watts (Power)	467	646	779	893
	Amps	1.76	1.82	1.90	2.00
10	Watts (Capacity)	3360	3060	2710	2320
	Watts (Power)	441	642	792	917
	Amps	1.75	1.82	1.91	2.02
15	Watts (Capacity)	4070	3710	3290	2830
	Watts (Power)	374	620	804	954
	Amps	1.72	1.81	1.92	2.04

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.500403E+03	-3.662242E+02	1.783000E+00	
C2	1.111674E+02	-3.039101E+01	-1.387260E-02	
C3	1.640088E+00	4.616995E+01	-2.529830E-03	
C4	2.325495E+00	-7.152761E-01	-1.076800E-04	
C5	-3.739966E-01	1.238223E+00	3.696390E-04	
C6	-4.101477E-01	-7.146122E-01	8.659580E-05	
C7	1.165927E-02	-6.793289E-03	0.000000E+00	
C8	-2.091766E-02	1.295772E-02	0.000000E+00	
C9	-5.600615E-03	-9.689961E-03	0.000000E+00	
C10	1.833860E-03	4.612950E-03	0.000000E+00	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature